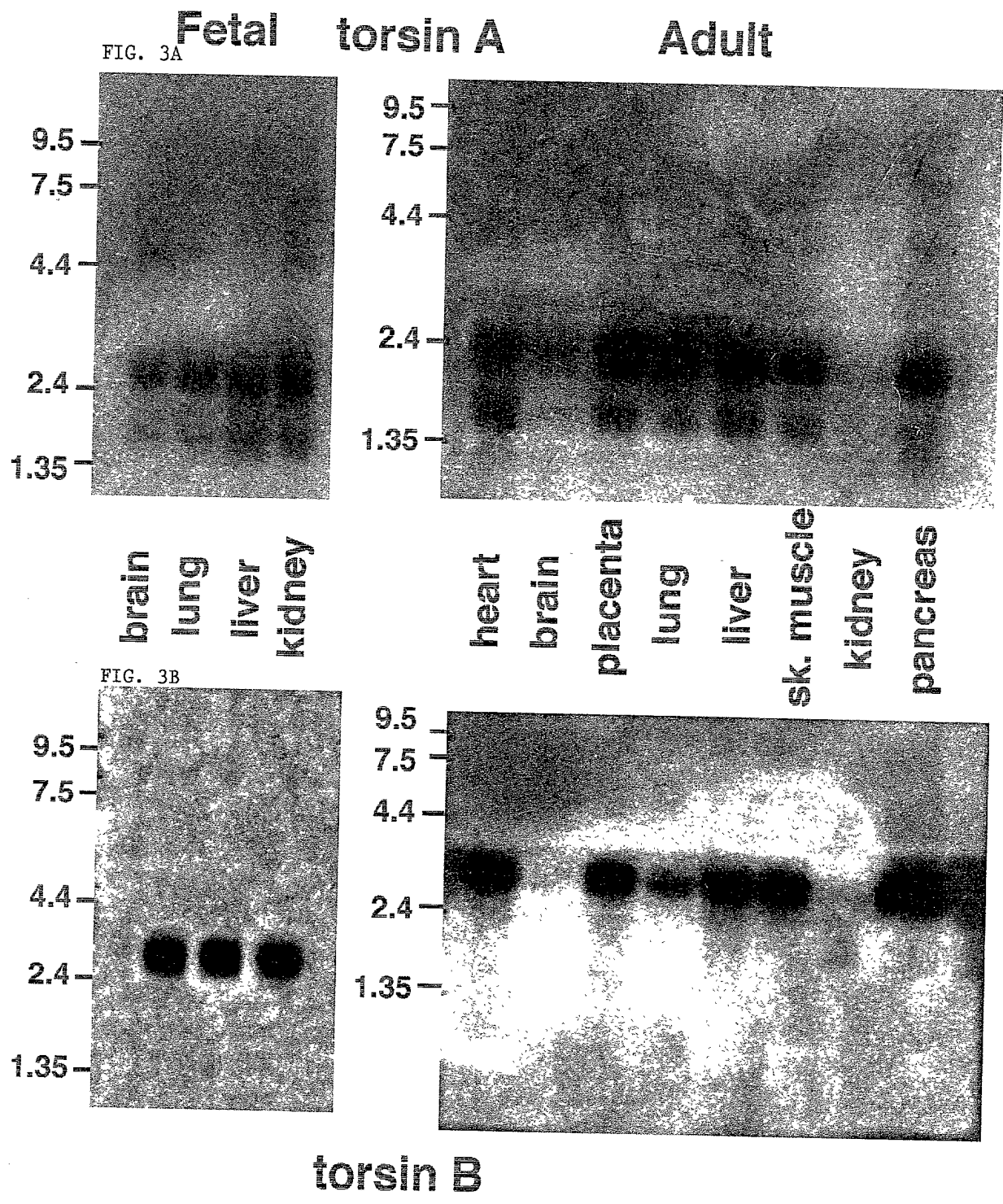


FIG.2



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—A— ATP-BINDING DOMAIN —B—

TorsinA DLVDGVSYQKAMFIEI SNACAEPIITVAL DEUNSCQKQREIVLHSTL

| | ▼ | PKC * | CK2 |
|---------|----------------------------|--------------|----------|
| TorsinA | --EIDEDIVSRVAEEMTFPKEERVFS | DKGCKTVFTKL | DYYDD |
| TorsinB | --AIDEDIVTRVAEEMTFPDEKITS | DKGCKTVQSRL | DFH |
| TorpC1 | DLVSNVDFVERVLNSLYQFPESKAF | SSSGCKRV | |
| Torp1 | --EPARRWFRCWTD- TYFPEVQLF | SSNGCKTVASRL | TFFL |
| Torp2 | --LYKEETLDEIAGMMVYVPKEEQLF | SSQGCKSIXQR | IKLLPVMX |

FIG. 4A

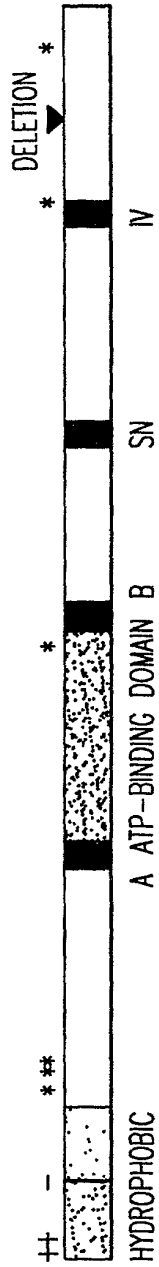


FIG. 4B